Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

8218 Coax - 75 Ohm Miniature Coax

For more Information
please call

1-800-Belden1

General Description:

27 AWG stranded (7x35) .017" bare copper-covered steel conductor, polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	27	7x35	BCCS - Bare Copper Covered Steel	.017

Total Number of Conductors:	1

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PE - Polyethylene	.100

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	95.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:	0.150 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +60°C
UL Temperature Rating:	60°C (UL AWM Style 1354)
Bulk Cable Weight:	14 lbs/1000 ft.
Max. Recommended Pulling Tension:	32 lbs.
Min. Bend Radius/Minor Axis:	1.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

AWM Specification:	UL Style 1354 (30 V 60°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/ft)
.115

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
20.5

Nominal Velocity of Propagation:

VP (%)
66

Nominal Delay:

Delay (ns/ft)
1.54

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
120

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.7

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	1.2
10	2.4
50	4.2
100	5.7
200	8.3
400	12.1
700	16.5
900	19.0
1000	20.0

Max. Operating Voltage - UL:

Voltage
30 V RMS (UL AWM Style 1354)

Max. Operating Voltage - Non-UL:

Voltage
1700 V RMS

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8218 010U1000	1,000 FT	16.000 LB	BLACK		75 OHM COAX
8218 010U500	500 FT	8.500 LB	BLACK		75 OHM COAX
8218 0101000	1,000 FT	16.000 LB	BLACK	C	75 OHM COAX
8218 010500	500 FT	8.000 LB	BLACK		75 OHM COAX

Notes:
C = CRATE REEL PUT-UP.

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